



Science 4th primary

Questions

(1) Complete:

- 1- A matter has and
- 2- Measuring tape is used for measuring
- 3- Measuring units of length, and
- 4- Measuring units of mass, and
- 5- Measuring units of volume.....,.....and.....
- 6- is a tool used for measuring the irregular solid bodies and liquids.
- 7- is a tool used for measuring the mass of gold and chemicals while is a tool used for measuring the mass of masses like fruits.
- 8- 1000 kilogram =
- 9- The volume of a brick = × ×
- 10- Five meters equal centimeters.
- 11- When your classmate puts a piece of iron in a beaker that is completely filled with water, a quantity of 20 cm^3 of water is poured out, so the volume of the piece of iron equals
- 12- unit is used to measure the distance between Cairo and Damietta.
- 13- The space occupied by a cube with one meter side equals



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14- Amr calculated the mass of four pieces of different materials that are equal in volume. he compared the mass of each of them amr wants to prove that equal volumes of different materials have

.....

15- States of matter are, and

16- Matter that takes the shape of its container and its volume cannot be changed is

17- On transferring water from one pot to another, its shape

18- Matter can be pressed in case of its State.

19- There are a definite shape and a definite volume in the..... S

20- The change of matter from the solid state into the liquid state accompanied with

21- Gold industries need Process.

22- Increasing the temperature of water to the boiling point changes water into

23- poles of electric cells are made up of

24- The group of elements that doesn't have luster is known as

25- Electric wires are made up of

26- Gold and silver are used in manufacturing

27- All the materials you see in your environment are made up of

28- We use in manufacturing bridges.

29- Can be bent, while Cannot be bent.

30- is a liquid-metal, while sulphur is a

31- Silver is a shiny element, so it belongs to, while sulphur is an element that doesn't have luster so, it belongs to



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32- The melting point of sulphur is than the melting point of aluminium.

33- Adding to gold in order to reshape it into jewelry.

34- Metals are Conductor of electricity and heat while nonmetals are Conductor of electricity and heat except.....

(2) Write a scientific term:

1- Everything that has a mass and occupies a part of space.

(.....)

2- The amount of matter that the object contains.

(.....)

3- The space that is occupied by the object.

(.....)

4- A tool that is used to estimate the mass of tiny objects as gold chemicals.

(.....)

5- A state that has definite volume and indefinite shape.

(.....)

6- The change of water from the gaseous state to the liquid state cooling.

(.....)

7- The change of water from the liquid state to the gaseous state heating.

(.....)

8- The transfer of ice into water by heating.

(.....)

9- The simplest form of matter that can't be analyzed into substances or more.

(.....)

10- The elements that have a metallic luster, are good conductors of heat and electricity, have high melting points, malleable and ductile. all of them are solids except mercury which is liquid.

(.....)

11- A metallic element that is used in making car frames, bridges and street lights.

(.....)



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(3) Give reason for:

- 1- Air is a matter.
- 2- When some pieces of stones are put in a glass full of water, some amount of water is spilled out of the glass.
- 3- Salt is a solid matter, while oil is a liquid matter.
- 4- Air is a gaseous matter.
- 5- The shape of water inside the cylindrical container differs from its shape inside the conical container.
- 6- On putting a mixture of gravels and water in a refinery with small holes, water passes, while gravels remain in the refinery.
- 7- On making tea, water drops are formed on the cover of teapot.
- 8- Appearance of some water droplets on the plant leaves.
- 9- The glass bottle which is put on the freezer of the refrigerator shouldn't be full of water.
- 10- Gaseous matter is compressed and packed in cylinders.
- 11- A piece of copper has a definite shape when we carry it from one vessel (container) to another one.
- 12- Iron is an element.
- 13- Gold and silver are used in making jewelers.
- 14- Cooking pans are made of aluminum.
- 15- Electric wires are made of copper.
- 16- Handles of cooking pots are made of wood or plastic.
- 17- The melting point of iron nail is higher than that of the sulfur crystals.



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18- When making an electric circuit with a foil paper, the electric lights, but when making an electric circuit with a sulphur crystal electric lamp doesn't light.

19-Iron ,copper and aluminum are good conductors of heat.

20-If you get out a bottle of water from refrigerator and leave it in air water drops are formed on its outer surface.

21-Gold and silver aren't used in manufacturing of bridges.

(4)What happens when:

1-Rising the temperature of a piece of ice.

2-Putting a glass full of water in the freezes for 24 hours.

(5)Cross the odd word

1-Aluminium-Mercury-Iron-Sulphur.

2-Bromine-Iron-Phosphorus-Sulphur.

3-Aluminium-Mercury-Iron-Copper.

4-Carbon-Bromine-Phosphorus-Sulphur.

(6) Comparison between:

1- Solids, liquid and gas

Point of comparison	solid	liquid	Gas
Volume
Shapes



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2- The change of matter process

Point of comparison	Melting process	freezing process	Evaporation process	Condensation process
From
Into
By

3- Metals and non metals.

Point of comparison	Metals	non – Metals
Having luster
Electric conductivity
Heat conductivity
malleability ductile
Boiling melting point
State at room temperature
Example

7-Put (v) or (x) and correct the wrong sentence:

- 1-Sensitive balance is used to measure the mass of jewels. ()
- 2-The graduated ruler is used to measure the mass. ()
- 3-The graduated tape is used to measure the mass of fruits and vegetables. ()
- 4-Carbon and sulphur have not luster. ()
- 5-On rising up the temperature of a piece of wax it melts. ()
- 6-Freezing is a change of solid matter to liquid state. ()



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- 7-On decreasing the temperature of the water vapour, it condenses. ()
- 8-All metals are solid elements in normal temperature except Bromine it is liquid element ()
- 9-Liquid matter have definite shapes and definite volumes. ()
- 10-Solids are changing their shapes and volumes According to the container. ()
- 11-Sulphur is non- metal element and good conductor to electricity ()
- 12-graduated ruler is used to determine the volume of irregular small stone. ()
- 13-The mass of equal volumes of different materials is equal. ()
- 14-condensation is the change of matter from liquid state to the solid state. ()
- 15-Metals are the simplest form that the matter found on it.

8-What is meant by:

- 1- Melting.
- 2- Mass.
- 3- Metals.



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9- Write the scientific term:

1. A change in appearance of substance without any change in its structure. (.....)
2. A change occurs when sugar is burned (.....)
3. Ending with the same substance that we started with (.....)
4. No formation of new substance (.....)
5. The largest body in solar system (.....)
6. Shiny objects radiate heat and light and appear at sky at night (.....)
7. The smallest planet in the solar system (.....)
8. Dark bodies revolve around the sun in fixed orbits(.....)
9. The nearest planet to the sun (.....)
10. The biggest planet in the solar system (.....)
11. The planet that has colored rings around it (.....)
12. Dark bodies revolve around some planets and reflect sunlight falling on its surface (.....)
13. A dark body revolve around the sun and we live on it. (.....)
14. The most beautiful planet (.....)



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15. A phenomenon occurs when the earth revolves around its axis
(.....)
16. A phenomenon occurs when the earth revolves around the sun
(.....)
17. A season in which day is longer than night
(.....)
18. A season in which day is shorter than night
(.....)
19. Seasons where the hours of day are nearly equal to those of night
(.....)
20. A dark body that seems bright as it reflects sunlight.
(.....)
21. A gas that is used with acetylene in cutting and welding metals.
(.....)
22. The most abundant gas in atmospheric air.
(.....)
23. A gas used in respiration of all living organisms.
(.....)
24. A substance used to test the presence of carbon dioxide in air.
(.....)

10- Complete the following:

1. Burning of wood is considered as a..... change
2. Melting of ice is considered as a..... change
3. Boiling of water and its vapour release is considered as a.....change



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4. Chemical change is change in.....
5. Rotten fruits and their fermentation is considered as.....
6. Changing of ice into water is considered as a..... process
7. Ductility of copper into wires is considered a..... change, while iron rust is considered a..... change
8. Melting of wax is considered as a..... change, while burning of wax is considered a..... change
9. Burning of wood is considered a..... change
10. Solid state \rightleftharpoons liquid state \rightleftharpoons gas state
11. The..... is located in the center of the solar system and there are.....revolve around it in fixed orbits
12. The earth is located between.....and.....
13. The..... is the smallest planet, while..... is the farthest planet from the sun
14. Mars is known as..... planet, while Neptune is the.....
15. Day is longer than night in.....
16. Day is shorter than night in.....
17. The hours of day are equal to those of night in..... and.....
18. Solar year equals..... day.
19. Green plants depend on.....gas in the process of photosynthesis



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20. Nitrogen gas is used in making..... and..... industries
21. The space is occupied by a cube with one meter side equals.....
22. The earth revolution around the sun in about.....days
23. The phenomenon of..... sequence results from rotation of the earth around its axis, while the phenomenon of.....sequence result from rotation of the earth around the sun
24. Silver is shiny element, it belongs to thegroup, while sulphur is an element having no luster so it belong to..... Group

11- Put right or wrong, then correct the wrong one:

1. Melting of ice is a chemical change ()
2. Burning of wood is a physical change ()
3. The change in appearance of matter without any change in its structure is called physical change ()
4. In physical change, matter can't return back to its original form ()
5. A combustion of paper is considered a chemical change ()
6. During chemical change, matter loses its properties ()



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7. The change of matter from solid state to liquid state is considered physical change ()
8. The sun is nearest star to us ()
9. The biggest body in solar system is Jupiter ()
10. Planets are dark bodies that don't emit light ()
11. The closest two planets to the earth are mars and Saturn ()
12. The number of planets that revolve around the sun is nine planets ()
13. Neptune is the blue planet and mars is the coldest planet ()
14. Saturn has colored rings around it ()
15. The moon is a dark body but seems bright as it reflects sun light ()
16. The sun rises from east and sets to west ()
17. The earth revolves around its axis once every 42 hours ()
18. The rotation of earth around the sun lead to sequence of day and ni ()
19. The earth revolves around the sun once every 365 ¼ day ()
20. The hours of day are equal to those of night in summer and autumn ()
21. In winter season the day is shorter than night ()



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22. In spring season the night is shorter than day ()
23. The ratio of oxygen gas in air is more than ratio of carbon dioxide gas ()
24. Atmospheric air contains $\frac{2}{5}$ of its volume oxygen gas ()
25. Divers carry nitrogen cylinder on their backs to help them in breathing under water ()
26. Carbon dioxide gas is necessary for combustion processes ()
27. Nitrogen gas occupies 78% of the atmospheric air volume ()
28. Nitrogen gas and carbon dioxide gas are the most abundant two gases in the air ()
29. Oxygen gas is used in ammonia industry ()
30. Lime water becomes turbid if it's exposed to air due to the presence of oxygen gas ()
31. Carbon dioxide gas doesn't burn and doesn't help in burning ()
32. The humidity of atmosphere depends on the amount of carbon dioxide gas found in air ()

12- Choose the correct answer:

1. Adding table salt to water with stirring produces:
- a) new substance b) physical change c) chemical change
2. is an example of the physical change.
- a) burning of candle b) iron rust
- c) dissolving of sugar in water
3. Putting a bottle of water in the freezer of refrigerator for a period of hours causes to water.



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- a) physical change b) change in structure
- c) chemical change
4. Adding yeast in baking is considered a
- a) physical change b) chemical change
- c) change in appearance
5. The nearest planet to the sun is
- a) the earth b) Mercury c) Neptune
6. The biggest planet is
- a) the earth b) Mercury c) Jupiter
7. The sun is a star because it
- a) absorbs light b) reflect light
- c) radiates light d) let light pass through
8. We see the moon shining because it
- a) absorbs light b) reflects light
- c) radiate light d) let light pass through it light pass
9. The sequence of day and night is occurred due to
- a) revolution of the earth around the sun.
- b) rotation of the earth around its axis.
- c) rotation of the sun around its axis.



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10. The number of the day hours are equal to the number of the night hours in

- a) summer b) winter c) spring d) all of seasons

12. The sequence of seasons of the year is occurred due to

- a) revolution of the earth around the sun
b) rotation of the earth around its axis.
c) rotation of the sun around its axis.

20. A gas represents $\frac{1}{5}$ of air volume.

- a) oxygen b) Nitrogen c) Carbon dioxide d) hydrogen

13- Give reason for:

1. Melting of chocolate is a physical change.

2. Producing of yoghurt from milk is chemical change.

3. Paper recycling is a physical change.

4. The sun is a star while the earth is a planet.

5. The stars seem very small in size.





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6. The moon is dark body but we see it shining.

.....

7. The sequence of day and night.

.....

8. The sequence of four seasons.

.....

9. The summers day is longer than the winters day.

.....

10. The movement of shadow.

.....

11. The shape of a piece of copper remains definite when we carry it from
a vessel to another one.

.....

.....



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Item	Its importance
1-The sun	It's the main source of heat and light On the earth's surface.
2-Rotation of the earth Around its axis:	It causes the sequence of day and Night.
3-Rotation of earth Around the sun:	It causes the sequence of four seasons
6-Oxygen gas	It's necessary for respiration process and burning (combustion) of fuels (food). Divers carry oxygen cylinders on their backs to respire Under the water surface. It's used with acetylene in cutting and welding Of metals.
7-Carbon dioxide gas	-It's used by green plants to make their own food By photosynthesis process. -It's used in making soda water. -It's used in making fire extinguishing equipments
8-Nitrogen gas	-It reduces the effect of oxygen gas in the Combustion process. -It's used in the industry of ammonia and some Nitrogenous fertilizers.
9-Limewater	It's used to test the presence of carbon dioxide gas



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(1) Complete:

1- mass • volume

2- length

3- centimeter • meter • kilometer 4- gram • kilogram • Ton

5- cubic centimeter • cubic meter • liter • milliliter

6- Graduated cylinder

7- sensitive balance • common balance

8- 1 Ton

10- 500

12- kilometer

14- different masses

16- liquid

18- gaseous

20- increase in temperature

(heating)

22- water vapour (gas)

24- non metals

26- jewelers

28- iron

30- Mercury • solid-non metal

32- lower

34- good • bad • carbon

9- length • width • height

11- 20 cm³

13- one cubic meter

15- solid • liquid • gas

17- changes

19- solid

21- melting

23- carbon (graphite)

25- copper

27- elements

29- metal – nonmetal

31- metals • non metals

33- copper



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(2) Write a scientific term:

- | | |
|------------------------|-------------------------|
| 1- A matter | 2- Mass |
| 3- Volume | 4- Sensitive balance |
| 5- liquid | 6- condensation process |
| 7- Evaporation process | 8- Melting process |
| 9- Element | 10- Metals |
| 11- Iron | |

(3) Give reason for:

- 1- Because it has mass and volume.
- 2- Because the piece of stone have volume that replaces the volume of spilled water.
- 3- Because salt has definite shape and volume, while oil has definite shape and indefinite volume.
- 4- Because it has indefinite shape and volume.
- 5- Because water is a liquid with indefinite shape take the shape of the container.
- 6- Because water is a liquid with indefinite shape while gravels are solids with definite shape.
- 7- Due to condensation of water vapour.
- 8- Due to condensation of water vapour in air.
- 9- Not to be explode.
- 10- Because it has indefinite shape and volume.
- 11- Because it is a solid matter.
- 12- Because it can't be analyzed into two substances or more.
- 13- Because they can be shaped, and have luster (metals) .



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- 14- Because aluminium is a metal that is good conductor of heat.
- 15- Because copper is a metal that is good conductor of electricity.
- 16- Because they are bad conductor of heat.
- 17- Because iron is a metal while sulphur is a non metal.
- 18- Because foil paper is a metal that is good conductor of elec while sulphur is a non metal that is bad conductor of electricity.
- 19-Because they are metals.
- 20-Due to the condensation of water vapour that found in air on it surface.
- 21-Because they are used in manufacturing of jewelries.

(4)What happens when:

- 1-It melts and changes into water.
- 2-It explodes.

(5)Cross the odd word

- 1-Sulphur.
- 2- Iron.
- 3-Mercury.
- 4-Bromine.

(6) Comparison between:

- 1- Solids, liquid and gas.

Point of comparison	solid	liquid	Gas
Volume	Definite	Definite	Indefinite
Shapes	Definite	Indefinite	Indefinite



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2- The change of matter process.

Point of comparison	Melting process	freezing process	Evaporation process	Condensation process
From	Solid	Liquid	Liquid	Gas
Into	Liquid	Solid	Gas	Liquid
By	heating	cooling	heating	cooling

3- Metals and non metals.

Point of comparison	Metals	non – Metals
Having luster	Shiny	haven't luster
Electric conductivity	Good conductor of electricity	Bad conductor of electricity Except carbon
Heat conductivity	Good conductor of heat	Bad conductor of heat
malleability ductile	Malleable and ductile (can be bent)	Not malleable and ductile (can't be bent)
Boiling melting point	High	Low
State of room temperature	Solids except mercury (liquid)	- solids (carbon) -liquid (bromine) - Gases (oxygen)
Example	Iron – copper	Sulphur - carbon

7-Put (✓) or (x) and correct the wrong sentence:

1- (✓)

2- (x) The graduated ruler is used to measure the length.

3- (x) The common balance is used to measure the mass of the fruit and vegetables.



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- 4- (v)
- 5- (v)
- 6- (x) Freezing is a change of liquid matter to solid state.
- 7- (v)
- 8- (x) except Mercury.
- 9- (x) Liquid matter have indefinite shapes & definite volumes.
- 10- (x) Gases are changing their shapes and volumes according to container.
- 11- (x) carbon (graphite) is non-metal element and good conductor of electricity.
- 12- (x) Graduated cylinder is used to determine the volume of irregular small stone.
- 13- (x) The mass of equal volumes of different materials is different.
- 14- (x) Freezing.
- 15- (x) Elements are the simplest form that the matter found on it.

8-What is meant by:

- 1-Melting: the changes of matter from solid state to liquid state by heating.
- 2-Mass: the amount of matter in an object.
- 3-Metals: solid elements except (mercury), have high melting & boiling points, have ability to conduct heat & electricity, can be hammered and have luster.



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9- Write the scientific term:

1. Physical change
2. Chemical change
3. Physical change
4. Physical change
5. The sun
6. Stars
7. Mercury
8. Planets
9. Mercury
10. Jupiter
11. Saturn
12. Moons
13. Earth
14. Venus
15. Sequence of day and night
16. Sequence of four seasons
17. Summer season
18. Winter season
19. Spring and autumn



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20. Moon

21. Oxygen gas

22. Nitrogen gas

23. Oxygen gas

24. Lime water

10- Complete the following:

1. Chemical

2. Physical

3. Physical

4. Structure producing new substance with new properties

5. Chemical change

6. Melting

7. Physical, chemical

8. Physical, chemical

9. Chemical

10. $\begin{array}{c} \xrightarrow{\text{melting}} \\ \xleftarrow{\text{Freezing}} \end{array}, \begin{array}{c} \xrightarrow{\text{evaporation}} \\ \xleftarrow{\text{condensation}} \end{array}$

11. Sun, 8 planets

12. Venus, mars

13. Mercury, Neptune



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14. Red planet, blue planet

15. Summer

16. Winter

17. Spring, autumn

18. 365 $\frac{1}{4}$

19. Carbon dioxide

20. Ammonia, nitrogenous fertilizers

21. One cubic meter (1 m^3)

22. Day and night, four seasons

23. Metal, non-metal

11- Put right or wrong:

1. (x), physical change

2. (x), chemical change

3. (✓)

4. (x), can return back

5. (✓)

6. (✓)

7. (✓)

8. (✓)

9. (x), sun



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10. (v)

11. (x), mars and Venus

12. (x), 8 planets

13. (x), mars is red planet

14. (v)

15. (v)

16. (v)

17. (x), 24 hours

18. (x), around its axis

19. (v)

20. (x), spring and autumn

21. (v)

22. (x), summer

23. (v)

24. (x), 1/5

25. (x), oxygen

26. (x), oxygen

27. (v)

28. (x), nitrogen and oxygen

29. (x), nitrogen



30. (x), carbon dioxide gas

31. (v)

32. (x), water vapour

12- Choose the correct answer:

1) physical change

2) dissolving of sugar in water

3) physical change

4) chemical change

6) Mercury

7) Jupiter

8) radiates light

9) reflects light

10) rotation of earth around its axis

11) spring

12) revolution of the earth around the sun

13) oxygen



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13-Give reason for:

1. Because it changes in appearance not in structure.
2. Because it changes in appearance and structure producing new substance with new properties.
3. Because it changes in appearance and not in structure.
4. Because the sun is a shiny body and radiates a heat and light, while earth is a dark body revolves around the sun in a fixed orbit.
5. Because they are very far away from us.
6. Because it reflects the sunlight.
7. Because earth revolves around its axis once every 24 hours.
8. Because the earth revolves around the sun once every $365 \frac{1}{4}$ Day.
9. Because the earth's axis is inclined.
10. Due to rotation of earth around its axis **or** due to the apparent movement of the sun.
11. Because it is solid and it has definite shape and volume.

Good Luck !